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HEWLETT-PACKARD COMPANY

Intellectual Property Administration P. O. Box 272400 Fort Collins, Colorado 80527-2400

PATENT APPLICATION

ATTORNEY DOCKET NO. 10002500-2

IN THE

UNITED	STATES	PATENT	AND	TRADEMARK	OFFICE
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Inventor(s):

lan P. Schaeffer et al.

Confirmation No.:

Application No.: 10/654,177

Examiner: Jonathan Johnson

Filing Date:

Sept. 3, 2003

Group Art Unit: 1725

Title:

A METHOD OF FABRICATING A SUBSTANTIALLY ZERO SIGNAL DEGRADATION

ELECTRICAL CONNECTION ON A PRINTED CIRCUIT BOARD

Mall Stop Amendment Commissioner For Patents PO Box 1450 Alexandria, VA 22313-1450

TRANSMITTAL LETTER FOR RESPONSE/AMENDMENT

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Sir:			
Transi	nitted herewith is/are the following in the abo	ove-identified a	application:
(X)	Response/Amendment	()	Petition to extend time to respond
()	New fee as calculated below	()	Supplemental Declaration
(X)	No additional fee		
()	Other:		(fee \$

(7) ADDITIONAL FEES		(8) RATE		(5) PRESENT EXTRA			(4) HIGHEST NUMBER PREVIOUSLY PAID FOR		N	(2) AIMS REMAINING TER AMENDMENT		(1) FOR			
\$ (\$50		×	0	= 0			MINUS		14		TOTAL CLAIMS		
	\$	× \$200		х \$	×	o ×	= 0		3 =		MINUS		1		INDEP. CLAIMS
	\$	360	FIRST PRESENTATION OF A MULTIPLE DEPENDENT CLAIM + \$360								[] FIR				
	\$	4TH MONTH \$1590.00		1		3RD MONTH \$1020.00		2ND 1		1ST MONTH \$120.00	1	EXTENSION FEE			
	\$	OTHER FEES													
	\$	BNT	, TOTAL ADDITIONAL FEE FOR THIS AMENDMENT												

__ to Deposit Account 08-2025. At any time during the pendency of this application, please charge any fees required or credit any overpayment to Deposit Account 08-2025 pursuant to 37 CFR 1.25. Additionally please charge any fees to Deposit Account 08-2025 under 37 CFR 1.16, 1.17, 1.19, 1.20 and 1.21. A duplicate copy of this sheet is enclosed.

Respectfully submitted,

(X) I hereby certify that this paper is being transmitted to the Patent and Trademark Office facsimile

number (571) 273-8300 on Aug. 31, 2005

Number of pages: 4

Typed Name: Michael R. Binzak

lan P. Schaeffer et al.

Michael R. Binzak

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Date: Aug. 31, 2005

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- Attach as First Page to Transmitted Papers -

AUG 3 1 2005

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant:

Ian P. Shaeffer et al.

Examiner: Jonathan J. Johnson

Serial No.:

10/654,177

Group Art Unit: 1725

Filed:

September 3, 2003

Docket No.: 10002500-2 (H300.146.102)

Due Date:

September 4, 2005

Title:

A METHOD OF FABRICATING A SUBSTANTIALLY ZERO SIGNAL

DEGRADATION ELECTRICAL CONNECTION ON A PRINTED

CIRCUIT BOARD

RESPONSE TO ELECTION REQUIREMENT

Mail Stop Amendment Commissioner for Patents P.O. Box 1450 Alexandria, VA 22313-1450

Sir:

This is responsive to the Office Action mailed August 4, 2005, in which an Election Requirement was set forth relative to the Examiner-identified inventions of Group I (claims 16, 17, 26, and 27), Group II (claims 22 and 23), and Group III (claims 18-21, 28, and 29). In response, Applicant hereby elects Group III (claims 18-21, 28, and 29) in addition to generic claims 14 and 15 with traverse for at least the reasons provided below.

The Examiner contends that the method of Group I (claims 16, 17, 26, and 27) drawn to the third opening in the stencil is a patentably distinct species from the method of Group II (claims 22-23) drawn to edge separation and from the method of Group III (claims 18-21, 28, and 29) drawn to placing a stencil. However, due to the existence of many similar claim limitations, it is respectfully submitted that no undue burden exists to examine all Groups.

As examples of similarity between claims, claim 16 of Group I is compared to claim 28 of Group III. Dependent claim 16 depends from claim 14 and includes the limitation of placing a stencil on the first surface of the dielectric structure, the stencil defining a first opening sized to substantially correspond to the first conducting pad, a second opening sized to substantially correspond to the second conducting pad, and a third opening that links the first opening to the second opening and is sized to correspond to a partial portion of the surface area of the first surface between the edges of the first and second conducting pads. Similarly, dependent claim 28 also depends from claim 14 and includes the limitation of

Response to Election Requirement Applicant: Ian P. Schaeffer et al.

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ELECTRICAL CONNECTION ON A PRINTED CIRCUIT BOARD

placing a stencil on the first surface of the dielectric structure core, the stencil defining an opening sized to correspond to a portion of the first conducting pad, a portion of the second conducting pad and a portion of the surface area of the first surface of the dielectric structure core between the edges of the first and second conducting pads. Both claims also include the step of applying solder paste onto the stencil. In comparing claim 17 of Group I to claim 29 of Group III, it is noted that claims 17 and 29 are identical to each other, other than claim 17 depends from claim 16 and claim 29 depends from claim 28.

With reference to claims 22 and 23 of Group II, these claims add a single limitation regarding separation distances between the first and second conducting pads.

As required by MPEP, if the search and examination of an entire application can be made without serious burden, the application must be examined on the merits, even though the application includes claims directed towards independent or distinct inventions (MPEP §803). Thus, it is respectfully requested that the Election Requirement be withdrawn and all claims examined.

The Examiner is invited to contact the Applicant's representative at the below-listed telephone numbers to facilitate prosecution of this application.

Any inquiry regarding this Amendment and Response should be directed to either Michael R. Binzak at Telephone No. (612) 573-0427, Facsimile No. (612) 573-2005 or to David A. Plettner at Telephone No. (408) 447-3013, Facsimile No. (408) 447-0854. In addition, all correspondence should continue to be directed to the following address:

Response to Election Requirement

Applicant: Ian P. Schaeffer et al.

Serial No.: 10/654,177 Filed: September 3, 2003 Docket No.: 10002500-2

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ELECTRICAL CONNECTION ON A PRINTED CIRCUIT BOARD

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Intellectual Property Administration

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Respectfully submitted,

Ian P. Shaeffer et al.,

By their attorneys,

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MRB:imc

Michael R. Binzak

Reg. No. 38,081

CERTIFICATE UNDER 37 C.F.R. 1.8:

The undersigned hereby certifies that this paper or papers, as described herein, are being transmitted via telefacsimile to Examiner Johnson, Group Art Unit 1725, at Fax No. (571) 273-8300 on this ______ day of August, 2005.

Name: Michael R. Binzak